

□if a English version is needed, please let me know□

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☐☐ ☐☐☐ email: gulifan@hotmail.com

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Turing Test

[illegible][illegible][illegible]

Nature

□ □

[illegible][illegible][illegible][illegible][illegible]

game

1) AlphaGo Zero

2) Chinese room argument

3) The Selfish Gene (The Immortal Gene)

word-embedding vector space

[1]

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“ ”

Technological Singularity AlphaGo Zero superhuman Quantum Supremacy

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Brain Initiative 2019 BRAIN Initiative 2019

2019

AlphaGo Zero Superhuman Quantum Supremacy

Nature 2019

AlphaGo Zero Nature 2019 superhuman [2] AlphaGo 2019 game AlphaGo Zero 2019

game Nature Quantum Supremacy 2019 [3]

Shor's algorithm Quantum Supremacy

qubit NISQ noisy intermediate-scale quantum

Quantum Supremacy Sycamore NISQ noise noise noise

Sycamore AlphaGo Zero

Quantum Supremacy noise

Sycamore Sycamore 200 10000

Quantum Supremacy NISQ John Preskill [4]

Quantum Supremacy Quantum Supremacy Nature

Quantum Supremacy optimization machine learning NISQ noisy Sycamore

noisy

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Quantum Supremacy

Nature Superhuman Quantum Supremacy

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AlphaGo Zero – Superhuman – Quantum Supremacy – “ ” –

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Académie française

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